

Input used in your Centrifuge experiment for project Centrifuge\_Demo

This run was submitted by SCA\_member, E-mail webmaster@scaweb.org

Gridblocks 50 Vert/Hor V LevJ OFF

Footbath OFF Flooding Imbibition

Core\_length 5 CM Core\_diam 1 INCH

Porosity 0.25 Permeability 250 MDARCY

Swi 0.18

Sw krw

0.15 0

0.18 3.00E-05

0.25 0.001

0.5 0.05

0.72 0.2

0.8 0.3

Sw kro

0.15 0.7

0.2 0.47

0.3 0.1

0.62 0.001

0.72 2.00E-05

0.8 0

Sw Pc

0.15 1 BAR

0.18 0 BAR

0.2 -0.1 BAR

0.75 -0.15 BAR

0.8 -1 BAR

Water\_density 1.05 G/CM3 Oil\_density 0.7 G/CM3

Water\_visc 0.001 PA\*S Oil\_visc 0.001 PA\*S

IFT 0.03 N/M

time(HOUR) RPM

0 300

0.5 1000

5 3000

12 8000

Radius\_centre 15 CM

Startup\_time 100 S rpm\_limit 5000

T\_end 24 HOUR

Start\_timestep 0.1 S Max\_timestep 10 HOUR

Max\_sat\_change 0.02 Max\_incr 1.2

Table 'prod\_table' contents; generated on Tue 30/11/1999 23:47 from run 'scores\_Centrifuge\_Demo'

	time HOUR	meansat M3/M3	top_sat M3/M3	bot_sat M3/M3	oilprod CM3	waterprod CM3
1	2.78E-04	0.18	0.18	0.18	5.08E-31	0.00E+00
2	6.11E-04	0.18	0.1801	0.18	8.00E-06	-8.00E-06
3	9.44E-04	0.18	0.1804	0.18	4.94E-05	-4.94E-05
4	1.28E-03	0.18	0.181	0.18	1.27E-04	-1.27E-04
5	1.61E-03	0.18	0.1818	0.18	2.41E-04	-2.41E-04
6	1.94E-03	0.1801	0.1829	0.18	3.98E-04	-3.98E-04

7	2.34E-03	0.1801	0.1832	0.1801	4.53E-04	-4.53E-04
8	2.82E-03	0.1801	0.1832	0.1801	4.75E-04	-4.75E-04
9	3.40E-03	0.1801	0.1832	0.1801	4.96E-04	-4.96E-04
10	4.09E-03	0.1801	0.1832	0.1801	5.19E-04	-5.19E-04
11	4.92E-03	0.1801	0.1832	0.1801	5.46E-04	-5.46E-04
12	5.92E-03	0.1801	0.1832	0.1801	5.76E-04	-5.76E-04
13	7.11E-03	0.1801	0.1832	0.1801	6.08E-04	-6.08E-04
14	8.54E-03	0.1801	0.1832	0.1801	6.45E-04	-6.45E-04
15	1.03E-02	0.1801	0.1832	0.1801	6.85E-04	-6.85E-04
16	1.23E-02	0.1801	0.1832	0.1801	7.29E-04	-7.29E-04
17	1.48E-02	0.1801	0.1832	0.1801	7.77E-04	-7.77E-04
18	1.78E-02	0.1801	0.1832	0.1801	8.30E-04	-8.30E-04
19	2.13E-02	0.1801	0.1832	0.1801	8.88E-04	-8.88E-04
20	2.56E-02	0.1802	0.1832	0.1801	9.51E-04	-9.51E-04
21	3.08E-02	0.1802	0.1832	0.1801	1.02E-03	-1.02E-03
22	3.69E-02	0.1802	0.1832	0.1801	1.09E-03	-1.09E-03
23	4.43E-02	0.1802	0.1832	0.1801	1.18E-03	-1.18E-03
24	5.32E-02	0.1802	0.1832	0.1801	1.27E-03	-1.27E-03
25	6.38E-02	0.1802	0.1832	0.1801	1.36E-03	-1.36E-03
26	7.66E-02	0.1802	0.1832	0.1801	1.47E-03	-1.47E-03
27	9.20E-02	0.1803	0.1832	0.1801	1.59E-03	-1.59E-03
28	1.10E-01	0.1803	0.1832	0.1801	1.71E-03	-1.71E-03
29	1.32E-01	0.1803	0.1832	0.1801	1.85E-03	-1.85E-03
30	1.59E-01	0.1803	0.1832	0.1801	2.01E-03	-2.01E-03
31	1.91E-01	0.1803	0.1832	0.1801	2.17E-03	-2.17E-03
32	2.29E-01	0.1804	0.1832	0.1801	2.35E-03	-2.35E-03
33	2.75E-01	0.1804	0.1832	0.1801	2.55E-03	-2.55E-03
34	3.30E-01	0.1804	0.1832	0.1801	2.76E-03	-2.76E-03
35	3.96E-01	0.1805	0.1832	0.1801	3.00E-03	-3.00E-03
36	4.75E-01	0.1805	0.1832	0.1801	3.25E-03	-3.25E-03
37	5.00E-01	0.1805	0.1832	0.1801	3.33E-03	-3.33E-03
38	5.00E-01	0.1805	0.1832	0.1801	3.33E-03	-3.33E-03
39	5.01E-01	0.1805	0.1844	0.1801	3.48E-03	-3.48E-03
40	5.01E-01	0.1806	0.1862	0.1801	3.73E-03	-3.73E-03
41	5.01E-01	0.1807	0.1891	0.1801	4.15E-03	-4.15E-03
42	5.02E-01	0.1808	0.1945	0.1802	4.99E-03	-4.99E-03
43	5.03E-01	0.1819	0.2436	0.1802	1.21E-02	-1.21E-02
44	5.03E-01	0.1835	0.3092	0.1803	2.20E-02	-2.20E-02
45	5.03E-01	0.1845	0.3459	0.1803	2.84E-02	-2.84E-02
46	5.03E-01	0.1858	0.3859	0.1803	3.68E-02	-3.68E-02
47	5.04E-01	0.1876	0.4282	0.1804	4.79E-02	-4.79E-02
48	5.04E-01	0.1899	0.4701	0.1804	6.26E-02	-6.26E-02
49	5.04E-01	0.193	0.5065	0.1804	8.22E-02	-8.22E-02
50	5.04E-01	0.1951	0.5251	0.1804	9.58E-02	-9.58E-02
51	5.05E-01	0.1976	0.5407	0.1805	1.12E-01	-1.12E-01
52	5.05E-01	0.2005	0.5538	0.1805	1.30E-01	-1.30E-01
53	5.05E-01	0.2037	0.5649	0.1805	1.50E-01	-1.50E-01
54	5.06E-01	0.2073	0.5746	0.1805	1.73E-01	-1.73E-01
55	5.06E-01	0.2101	0.5808	0.1805	1.90E-01	-1.90E-01
56	5.07E-01	0.2132	0.5867	0.1805	2.10E-01	-2.10E-01
57	5.07E-01	0.2164	0.5919	0.1805	2.31E-01	-2.31E-01
58	5.08E-01	0.2201	0.597	0.1805	2.54E-01	-2.54E-01
59	5.08E-01	0.2232	0.6009	0.1805	2.74E-01	-2.74E-01
60	5.09E-01	0.2268	0.605	0.1805	2.96E-01	-2.96E-01

61	5.10E-01	0.2308	0.6091	0.1805	3.22E-01	-3.22E-01
62	5.10E-01	0.2343	0.6123	0.1805	3.44E-01	-3.44E-01
63	5.11E-01	0.2382	0.6158	0.1805	3.69E-01	-3.69E-01
64	5.12E-01	0.2417	0.6187	0.1805	3.91E-01	-3.91E-01
65	5.13E-01	0.2456	0.6218	0.1805	4.15E-01	-4.15E-01
66	5.14E-01	0.249	0.6245	0.1805	4.37E-01	-4.37E-01
67	5.15E-01	0.253	0.6274	0.1805	4.62E-01	-4.62E-01
68	5.16E-01	0.2565	0.6299	0.1805	4.85E-01	-4.85E-01
69	5.17E-01	0.2605	0.6326	0.1805	5.10E-01	-5.10E-01
70	5.18E-01	0.2641	0.635	0.1805	5.33E-01	-5.33E-01
71	5.19E-01	0.2682	0.6376	0.1805	5.58E-01	-5.58E-01
72	5.20E-01	0.2717	0.6397	0.1805	5.81E-01	-5.81E-01
73	5.21E-01	0.2758	0.6421	0.1805	6.07E-01	-6.07E-01
74	5.23E-01	0.2798	0.6444	0.1805	6.32E-01	-6.32E-01
75	5.24E-01	0.2845	0.6469	0.1805	6.62E-01	-6.62E-01
76	5.26E-01	0.2883	0.649	0.1805	6.86E-01	-6.86E-01
77	5.27E-01	0.2928	0.6513	0.1805	7.14E-01	-7.14E-01
78	5.29E-01	0.2968	0.6533	0.1805	7.40E-01	-7.40E-01
79	5.31E-01	0.3014	0.6555	0.1805	7.69E-01	-7.69E-01
80	5.33E-01	0.3055	0.6574	0.1806	7.95E-01	-7.95E-01
81	5.35E-01	0.3101	0.6595	0.1806	8.24E-01	-8.24E-01
82	5.37E-01	0.3142	0.6614	0.1806	8.50E-01	-8.50E-01
83	5.40E-01	0.3188	0.6634	0.1806	8.79E-01	-8.79E-01
84	5.42E-01	0.323	0.6652	0.1806	9.06E-01	-9.06E-01
85	5.45E-01	0.3277	0.6672	0.1806	9.36E-01	-9.36E-01
86	5.48E-01	0.332	0.669	0.1806	9.63E-01	-9.63E-01
87	5.51E-01	0.3366	0.6709	0.1806	9.92E-01	-9.92E-01
88	5.55E-01	0.3411	0.6727	0.1806	1.02E+00	-1.02E+00
89	5.58E-01	0.3452	0.6744	0.1806	1.05E+00	-1.05E+00
90	5.62E-01	0.3499	0.6762	0.1806	1.08E+00	-1.08E+00
91	5.66E-01	0.3537	0.6777	0.1806	1.10E+00	-1.10E+00
92	5.70E-01	0.3579	0.6793	0.1806	1.13E+00	-1.13E+00
93	5.74E-01	0.3618	0.6809	0.1806	1.15E+00	-1.15E+00
94	5.79E-01	0.3661	0.6826	0.1806	1.18E+00	-1.18E+00
95	5.84E-01	0.3703	0.6842	0.1806	1.21E+00	-1.21E+00
96	5.89E-01	0.374	0.6856	0.1806	1.23E+00	-1.23E+00
97	5.95E-01	0.3781	0.6872	0.1806	1.25E+00	-1.25E+00
98	6.01E-01	0.3815	0.6886	0.1806	1.28E+00	-1.28E+00
99	6.07E-01	0.3852	0.6901	0.1806	1.30E+00	-1.30E+00
100	6.15E-01	0.3892	0.6917	0.1806	1.33E+00	-1.33E+00
101	6.22E-01	0.3923	0.693	0.1806	1.34E+00	-1.34E+00
102	6.30E-01	0.3957	0.6944	0.1806	1.37E+00	-1.37E+00
103	6.39E-01	0.3993	0.696	0.1806	1.39E+00	-1.39E+00
104	6.48E-01	0.4023	0.6973	0.1806	1.41E+00	-1.41E+00
105	6.58E-01	0.4055	0.6987	0.1806	1.43E+00	-1.43E+00
106	6.71E-01	0.4088	0.7003	0.1806	1.45E+00	-1.45E+00
107	6.85E-01	0.4121	0.7019	0.1806	1.47E+00	-1.47E+00
108	6.99E-01	0.4149	0.7034	0.1806	1.49E+00	-1.49E+00
109	7.16E-01	0.418	0.7049	0.1806	1.51E+00	-1.51E+00
110	7.36E-01	0.4211	0.7066	0.1806	1.53E+00	-1.53E+00
111	7.61E-01	0.4242	0.7084	0.1806	1.55E+00	-1.55E+00
112	7.86E-01	0.4269	0.71	0.1806	1.56E+00	-1.56E+00
113	8.16E-01	0.4296	0.7117	0.1806	1.58E+00	-1.58E+00
114	8.52E-01	0.4323	0.7135	0.1806	1.60E+00	-1.60E+00

115	8.96E-01	0.4351	0.7154	0.1806	1.62E+00	-1.62E+00
116	9.48E-01	0.438	0.7175	0.1806	1.63E+00	-1.63E+00
117	1.01E+00	0.4411	0.7197	0.1806	1.65E+00	-1.65E+00
118	1.09E+00	0.4443	0.7222	0.1806	1.67E+00	-1.67E+00
119	1.18E+00	0.4476	0.7248	0.1806	1.70E+00	-1.70E+00
120	1.28E+00	0.4509	0.7277	0.1806	1.72E+00	-1.72E+00
121	1.41E+00	0.4542	0.7307	0.1806	1.74E+00	-1.74E+00
122	1.57E+00	0.4574	0.7339	0.1806	1.76E+00	-1.76E+00
123	1.76E+00	0.4603	0.7372	0.1806	1.78E+00	-1.78E+00
124	1.98E+00	0.4629	0.7407	0.1806	1.79E+00	-1.79E+00
125	2.25E+00	0.4653	0.7443	0.1806	1.81E+00	-1.81E+00
126	2.58E+00	0.4674	0.748	0.1806	1.82E+00	-1.82E+00
127	2.96E+00	0.4693	0.7511	0.1806	1.83E+00	-1.83E+00
128	3.43E+00	0.4709	0.7521	0.1806	1.84E+00	-1.84E+00
129	3.99E+00	0.4724	0.7525	0.1806	1.85E+00	-1.85E+00
130	4.66E+00	0.4738	0.7533	0.1806	1.86E+00	-1.86E+00
131	5.00E+00	0.4745	0.7535	0.1806	1.87E+00	-1.87E+00
132	5.00E+00	0.4745	0.7535	0.1806	1.87E+00	-1.87E+00
133	5.00E+00	0.4746	0.7535	0.1806	1.87E+00	-1.87E+00
134	5.00E+00	0.475	0.7535	0.1807	1.87E+00	-1.87E+00
135	5.00E+00	0.4757	0.7535	0.1808	1.87E+00	-1.87E+00
136	5.00E+00	0.4771	0.7535	0.1809	1.88E+00	-1.88E+00
137	5.00E+00	0.4793	0.7536	0.1811	1.90E+00	-1.90E+00
138	5.00E+00	0.4828	0.7536	0.1813	1.92E+00	-1.92E+00
139	5.00E+00	0.4859	0.7536	0.1815	1.94E+00	-1.94E+00
140	5.00E+00	0.4889	0.7536	0.1817	1.96E+00	-1.96E+00
141	5.01E+00	0.4927	0.7536	0.1819	1.98E+00	-1.98E+00
142	5.01E+00	0.496	0.7537	0.1821	2.00E+00	-2.00E+00
143	5.01E+00	0.4995	0.7537	0.1822	2.02E+00	-2.02E+00
144	5.01E+00	0.5024	0.7537	0.1824	2.04E+00	-2.04E+00
145	5.01E+00	0.506	0.7537	0.1825	2.06E+00	-2.06E+00
146	5.01E+00	0.5087	0.7538	0.1827	2.08E+00	-2.08E+00
147	5.01E+00	0.5118	0.7538	0.1829	2.10E+00	-2.10E+00
148	5.01E+00	0.5156	0.7538	0.183	2.13E+00	-2.13E+00
149	5.01E+00	0.518	0.7538	0.1832	2.14E+00	-2.14E+00
150	5.01E+00	0.5209	0.7539	0.1833	2.16E+00	-2.16E+00
151	5.01E+00	0.5243	0.7539	0.1835	2.18E+00	-2.18E+00
152	5.01E+00	0.5267	0.7539	0.1836	2.20E+00	-2.20E+00
153	5.01E+00	0.5296	0.7539	0.1838	2.21E+00	-2.21E+00
154	5.01E+00	0.5331	0.754	0.1839	2.24E+00	-2.24E+00
155	5.01E+00	0.5353	0.754	0.1841	2.25E+00	-2.25E+00
156	5.01E+00	0.5379	0.754	0.1842	2.27E+00	-2.27E+00
157	5.01E+00	0.5411	0.754	0.1844	2.29E+00	-2.29E+00
158	5.01E+00	0.5433	0.7541	0.1846	2.30E+00	-2.30E+00
159	5.01E+00	0.546	0.7541	0.1847	2.32E+00	-2.32E+00
160	5.01E+00	0.5491	0.7541	0.1848	2.34E+00	-2.34E+00
161	5.01E+00	0.5513	0.7541	0.185	2.35E+00	-2.35E+00
162	5.01E+00	0.5539	0.7542	0.1852	2.37E+00	-2.37E+00
163	5.01E+00	0.557	0.7542	0.1853	2.39E+00	-2.39E+00
164	5.01E+00	0.5598	0.7542	0.1854	2.41E+00	-2.41E+00
165	5.01E+00	0.562	0.7543	0.1854	2.42E+00	-2.42E+00
166	5.01E+00	0.5645	0.7543	0.1854	2.44E+00	-2.44E+00
167	5.01E+00	0.5675	0.7543	0.1855	2.45E+00	-2.45E+00
168	5.01E+00	0.5695	0.7544	0.1855	2.47E+00	-2.47E+00

169	5.01E+00	0.5717	0.7544	0.1855	2.48E+00	-2.48E+00
170	5.01E+00	0.5744	0.7544	0.1855	2.50E+00	-2.50E+00
171	5.01E+00	0.5774	0.7545	0.1855	2.52E+00	-2.52E+00
172	5.01E+00	0.5793	0.7545	0.1855	2.53E+00	-2.53E+00
173	5.01E+00	0.5815	0.7545	0.1855	2.54E+00	-2.54E+00
174	5.01E+00	0.584	0.7546	0.1855	2.56E+00	-2.56E+00
175	5.01E+00	0.5868	0.7546	0.1855	2.58E+00	-2.58E+00
176	5.01E+00	0.5887	0.7547	0.1855	2.59E+00	-2.59E+00
177	5.02E+00	0.5909	0.7547	0.1855	2.60E+00	-2.60E+00
178	5.02E+00	0.5934	0.7547	0.1855	2.62E+00	-2.62E+00
179	5.02E+00	0.5962	0.7548	0.1855	2.64E+00	-2.64E+00
180	5.02E+00	0.598	0.7548	0.1855	2.65E+00	-2.65E+00
181	5.02E+00	0.6	0.7549	0.1855	2.66E+00	-2.66E+00
182	5.02E+00	0.6024	0.7549	0.1855	2.68E+00	-2.68E+00
183	5.02E+00	0.605	0.755	0.1855	2.69E+00	-2.69E+00
184	5.02E+00	0.6077	0.755	0.1855	2.71E+00	-2.71E+00
185	5.02E+00	0.6095	0.7551	0.1856	2.72E+00	-2.72E+00
186	5.02E+00	0.6116	0.7551	0.1856	2.73E+00	-2.73E+00
187	5.02E+00	0.6139	0.7552	0.1856	2.75E+00	-2.75E+00
188	5.02E+00	0.6165	0.7552	0.1856	2.77E+00	-2.77E+00
189	5.02E+00	0.6182	0.7553	0.1856	2.78E+00	-2.78E+00
190	5.02E+00	0.62	0.7553	0.1856	2.79E+00	-2.79E+00
191	5.02E+00	0.6221	0.7554	0.1856	2.80E+00	-2.80E+00
192	5.02E+00	0.6245	0.7555	0.1856	2.82E+00	-2.82E+00
193	5.02E+00	0.6271	0.7555	0.1856	2.83E+00	-2.83E+00
194	5.02E+00	0.6288	0.7556	0.1856	2.84E+00	-2.84E+00
195	5.02E+00	0.6306	0.7557	0.1856	2.85E+00	-2.85E+00
196	5.03E+00	0.6327	0.7557	0.1856	2.87E+00	-2.87E+00
197	5.03E+00	0.635	0.7558	0.1856	2.88E+00	-2.88E+00
198	5.03E+00	0.6375	0.7559	0.1856	2.90E+00	-2.90E+00
199	5.03E+00	0.6401	0.7561	0.1856	2.91E+00	-2.91E+00
200	5.03E+00	0.6413	0.7561	0.1856	2.92E+00	-2.92E+00
201	5.03E+00	0.6425	0.7562	0.1856	2.93E+00	-2.93E+00
202	5.03E+00	0.644	0.7563	0.1856	2.94E+00	-2.94E+00
203	5.03E+00	0.6456	0.7563	0.1856	2.95E+00	-2.95E+00
204	5.03E+00	0.6474	0.7565	0.1856	2.96E+00	-2.96E+00
205	5.04E+00	0.6494	0.7566	0.1856	2.97E+00	-2.97E+00
206	5.04E+00	0.6515	0.7567	0.1856	2.99E+00	-2.99E+00
207	5.04E+00	0.6535	0.7569	0.1856	3.00E+00	-3.00E+00
208	5.04E+00	0.6548	0.757	0.1856	3.01E+00	-3.01E+00
209	5.04E+00	0.6562	0.7571	0.1856	3.02E+00	-3.02E+00
210	5.05E+00	0.6576	0.7573	0.1856	3.03E+00	-3.03E+00
211	5.05E+00	0.6592	0.7574	0.1856	3.04E+00	-3.04E+00
212	5.05E+00	0.6608	0.7576	0.1856	3.05E+00	-3.05E+00
213	5.06E+00	0.6627	0.7578	0.1856	3.06E+00	-3.06E+00
214	5.06E+00	0.6646	0.7581	0.1856	3.07E+00	-3.07E+00
215	5.07E+00	0.6668	0.7584	0.1856	3.08E+00	-3.08E+00
216	5.08E+00	0.6691	0.7587	0.1856	3.10E+00	-3.10E+00
217	5.08E+00	0.6717	0.759	0.1856	3.11E+00	-3.11E+00
218	5.10E+00	0.6743	0.7594	0.1856	3.13E+00	-3.13E+00
219	5.11E+00	0.6771	0.7598	0.1856	3.15E+00	-3.15E+00
220	5.12E+00	0.6799	0.7603	0.1856	3.17E+00	-3.17E+00
221	5.14E+00	0.6828	0.7608	0.1856	3.18E+00	-3.18E+00
222	5.16E+00	0.6857	0.7613	0.1856	3.20E+00	-3.20E+00

223	5.19E+00	0.6882	0.7619	0.1856	3.22E+00	-3.22E+00
224	5.22E+00	0.6903	0.7625	0.1856	3.23E+00	-3.23E+00
225	5.25E+00	0.6919	0.7631	0.1856	3.24E+00	-3.24E+00
226	5.29E+00	0.6934	0.7637	0.1856	3.25E+00	-3.25E+00
227	5.34E+00	0.6949	0.7644	0.1856	3.26E+00	-3.26E+00
228	5.40E+00	0.6962	0.7651	0.1856	3.27E+00	-3.27E+00
229	5.46E+00	0.6976	0.7659	0.1856	3.28E+00	-3.28E+00
230	5.55E+00	0.6989	0.7668	0.1856	3.29E+00	-3.29E+00
231	5.64E+00	0.7003	0.7678	0.1856	3.30E+00	-3.30E+00
232	5.76E+00	0.7017	0.7688	0.1856	3.30E+00	-3.30E+00
233	5.90E+00	0.7033	0.7699	0.1856	3.31E+00	-3.31E+00
234	6.07E+00	0.705	0.7712	0.1856	3.33E+00	-3.33E+00
235	6.27E+00	0.7069	0.7725	0.1856	3.34E+00	-3.34E+00
236	6.52E+00	0.7091	0.7739	0.1856	3.35E+00	-3.35E+00
237	6.81E+00	0.7115	0.7755	0.1856	3.37E+00	-3.37E+00
238	7.16E+00	0.7142	0.7771	0.1856	3.38E+00	-3.38E+00
239	7.58E+00	0.7174	0.7789	0.1856	3.40E+00	-3.40E+00
240	8.08E+00	0.7209	0.7808	0.1856	3.43E+00	-3.43E+00
241	8.69E+00	0.7249	0.7828	0.1856	3.45E+00	-3.45E+00
242	9.41E+00	0.7291	0.7849	0.1856	3.48E+00	-3.48E+00
243	1.03E+01	0.7335	0.7872	0.1856	3.51E+00	-3.51E+00
244	1.13E+01	0.7376	0.7895	0.1856	3.53E+00	-3.53E+00
245	1.20E+01	0.7398	0.7908	0.1856	3.55E+00	-3.55E+00
246	1.20E+01	0.7398	0.7908	0.1856	3.55E+00	-3.55E+00
247	1.20E+01	0.7399	0.7908	0.1861	3.55E+00	-3.55E+00
248	1.20E+01	0.74	0.7908	0.1866	3.55E+00	-3.55E+00
249	1.20E+01	0.7403	0.7908	0.1873	3.55E+00	-3.55E+00
250	1.20E+01	0.741	0.7908	0.1882	3.55E+00	-3.55E+00
251	1.20E+01	0.7421	0.7908	0.1895	3.56E+00	-3.56E+00
252	1.20E+01	0.744	0.7908	0.1912	3.57E+00	-3.57E+00
253	1.20E+01	0.746	0.7908	0.194	3.59E+00	-3.59E+00
254	1.20E+01	0.7474	0.7908	0.197	3.59E+00	-3.59E+00
255	1.20E+01	0.7488	0.7908	0.2068	3.60E+00	-3.60E+00
256	1.20E+01	0.7502	0.7908	0.2354	3.61E+00	-3.61E+00
257	1.20E+01	0.7516	0.7908	0.2791	3.62E+00	-3.62E+00
258	1.20E+01	0.753	0.7909	0.3283	3.63E+00	-3.63E+00
259	1.20E+01	0.7548	0.7909	0.4016	3.64E+00	-3.64E+00
260	1.20E+01	0.7569	0.7909	0.4886	3.65E+00	-3.65E+00
261	1.20E+01	0.7585	0.7909	0.5508	3.66E+00	-3.66E+00
262	1.20E+01	0.7591	0.7909	0.576	3.67E+00	-3.67E+00
263	1.20E+01	0.7596	0.7909	0.5952	3.67E+00	-3.67E+00
264	1.20E+01	0.7601	0.7909	0.6118	3.67E+00	-3.67E+00
265	1.20E+01	0.7606	0.791	0.6289	3.68E+00	-3.68E+00
266	1.20E+01	0.761	0.791	0.6461	3.68E+00	-3.68E+00
267	1.20E+01	0.7615	0.791	0.662	3.68E+00	-3.68E+00
268	1.20E+01	0.7619	0.791	0.6759	3.69E+00	-3.69E+00
269	1.20E+01	0.7623	0.7911	0.6875	3.69E+00	-3.69E+00
270	1.20E+01	0.7626	0.7912	0.6967	3.69E+00	-3.69E+00
271	1.20E+01	0.7629	0.7913	0.704	3.69E+00	-3.69E+00
272	1.20E+01	0.7632	0.7914	0.7094	3.69E+00	-3.69E+00
273	1.20E+01	0.7635	0.7915	0.7129	3.70E+00	-3.70E+00
274	1.20E+01	0.7638	0.7917	0.7155	3.70E+00	-3.70E+00
275	1.20E+01	0.7641	0.7918	0.7177	3.70E+00	-3.70E+00
276	1.21E+01	0.7644	0.792	0.7198	3.70E+00	-3.70E+00

277	1.21E+01	0.7647	0.7923	0.7223	3.70E+00	-3.70E+00
278	1.21E+01	0.7651	0.7925	0.7253	3.71E+00	-3.71E+00
279	1.21E+01	0.7656	0.7928	0.7285	3.71E+00	-3.71E+00
280	1.21E+01	0.7661	0.7931	0.732	3.71E+00	-3.71E+00
281	1.21E+01	0.7666	0.7935	0.7355	3.72E+00	-3.72E+00
282	1.21E+01	0.7671	0.7938	0.7389	3.72E+00	-3.72E+00
283	1.22E+01	0.7677	0.7942	0.742	3.72E+00	-3.72E+00
284	1.22E+01	0.7684	0.7946	0.7449	3.73E+00	-3.73E+00
285	1.22E+01	0.7691	0.7951	0.7475	3.73E+00	-3.73E+00
286	1.23E+01	0.7698	0.7955	0.7497	3.74E+00	-3.74E+00
287	1.23E+01	0.7707	0.7959	0.7515	3.74E+00	-3.74E+00
288	1.24E+01	0.7716	0.7963	0.7527	3.75E+00	-3.75E+00
289	1.24E+01	0.7727	0.7967	0.7536	3.75E+00	-3.75E+00
290	1.25E+01	0.7738	0.7971	0.7544	3.76E+00	-3.76E+00
291	1.26E+01	0.7751	0.7974	0.7552	3.77E+00	-3.77E+00
292	1.28E+01	0.7765	0.7978	0.7559	3.78E+00	-3.78E+00
293	1.29E+01	0.778	0.7981	0.7567	3.79E+00	-3.79E+00
294	1.31E+01	0.7796	0.7983	0.7575	3.80E+00	-3.80E+00
295	1.33E+01	0.7813	0.7986	0.7583	3.81E+00	-3.81E+00
296	1.36E+01	0.783	0.7988	0.759	3.82E+00	-3.82E+00
297	1.39E+01	0.7846	0.799	0.7598	3.83E+00	-3.83E+00
298	1.43E+01	0.7863	0.7991	0.7605	3.84E+00	-3.84E+00
299	1.47E+01	0.7878	0.7992	0.7611	3.85E+00	-3.85E+00
300	1.52E+01	0.7893	0.7994	0.7616	3.86E+00	-3.86E+00
301	1.59E+01	0.7906	0.7995	0.7621	3.87E+00	-3.87E+00
302	1.67E+01	0.7918	0.7995	0.7625	3.88E+00	-3.88E+00
303	1.76E+01	0.7928	0.7996	0.7628	3.88E+00	-3.88E+00
304	1.87E+01	0.7938	0.7997	0.763	3.89E+00	-3.89E+00
305	2.01E+01	0.7945	0.7997	0.7632	3.89E+00	-3.89E+00
306	2.17E+01	0.7952	0.7998	0.7633	3.90E+00	-3.90E+00
307	2.36E+01	0.7958	0.7998	0.7634	3.90E+00	-3.90E+00
308	2.40E+01	0.7959	0.7998	0.7634	3.90E+00	-3.90E+00